

File 344:Chinese Patents Abs Aug 1985-2003/Mar
(c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2003/Apr(Updated 030804)
(c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200355
(c) 2003 Thomson Derwent

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Set	Items	Description
S1	187781	FONT?? OR CHARACTER?? OR LETTERS
S2	78562	EMULAT? OR SIMULAT?
S3	301	(USING OR UTILI?) AND (SECOND OR ANOTHER) AND FONT??
S4	95	(STRIPPING OR TAKING OR EDITING) AND (TOP(3N)LINE? OR BOTTOM()LINE?)
S5	0	S4 AND (PIXEL? OR PEL OR PICTURE()ELEMENT?)
S6	79619	S1 AND (PART OR PARTS OR SECTION?? OR POINT?? OR SEGMENT?? OR PORTION?? OR FRAGMENT? OR PARTIAL)
S7	516	(GENERAT? OR CREAT? OR RENDER? OR PRODUC?) AND (ANOTHER OR SECOND OR ADDITIONAL) AND FONT??
S8	577204	COPYING OR STORING OR STORE
S9	265	EIGHT(3N)FOURTEEN OR EIGHT(3N)SIXTEEN
S10	29	NINE(3N)FOURTEEN OR NINE(3N)SIXTEEN
S11	4	9X16 OR 8X14
S12	2	9X14 OR 8X14
S13	41172	(CHANG? OR REDUC? OR MINIMI? OR SHRINK? OR SHORTER? OR SMALLER?) OR DECIMAT?) AND S1
S14	120156	IC=G06T?
S15	3360	S6 AND (PIXEL? OR PEL OR PICTURE()ELEMENT?)
S16	657	S15 AND S14
S17	188	S16 AND (CHANG? OR REDUC? OR MINIMI? OR SHRINK? OR SHORTER? OR SMALLER? OR DECIMAT?)
S18	0	S17 AND S2
S19	3	S17 AND TOP AND BOTTOM
S20	4	S1 AND S4 AND (CHANG? OR REDUC? OR MINIMI? OR SHRINK? OR SHORTER? OR SMALLER? OR DECIMAT? OR ALTER?)
S21	4	S20 NOT S19
S22	1	S9:S12 AND FONT??
S23	3071	S6 AND (GENERAT? OR CREAT? OR RENDER? OR PRODUC?) AND (ANOTHER OR SECOND OR ADDITIONAL)
S24	957	S23 AND (STORAGE OR STORED OR DATABASE)
S25	71	S24 AND (PIXEL? OR PEL OR PICTURE()ELEMENT?)
S26	18	S25 AND (CHANG? OR REDUC? OR MINIMI? OR SHRINK? OR SHORTER? OR SMALLER? OR DECIMAT? OR ALTER?)
S27	18	S26 NOT (S19 OR S20)

19/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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05515716 **Image available**
IMAGE PROCESSING UNIT RECOGNIZING **TOP** AND **BOTTOM** OF ORIGINAL IMAGE

PUB. NO.: 09-130516 [JP 9130516 A]
PUBLISHED: May 16, 1997 (19970516)
INVENTOR(s): NABESHIMA TAKAMOTO
HASHIMOTO HIDEYUKI
IMAIZUMI SHOJI
SAKATANI KAZUTOMI
APPLICANT(s): MINOLTA CO LTD [000607] (A Japanese Company or Corporation),
JP (Japan)
APPL. NO.: 07-303341 [JP 95303341]
FILED: October 30, 1995 (19951030)

IMAGE PROCESSING UNIT RECOGNIZING **TOP** AND **BOTTOM** OF ORIGINAL IMAGE

INTL CLASS: H04N-001/00; **G06T-007/00** ; G06K-009/20; H04N-001/387

ABSTRACT

PROBLEM TO BE SOLVED: To provide the image processing unit recognizing automatically **top** and **bottom** of an original image...

...SOLUTION: **Parts** of capital **letters** and small **letters** used in an English **font** original exceed over the mean line and under the base line, and number of the **letters** exceeding over the mean line used in the original is more than number of **letters** under the base line. Number of **picture elements** of the **letters** in the arranged direction of the **letters** is accumulated to generate a histogram shaped shown in figure (b) and let peaks in the histogram at the upper **part** and the lower **part** of the x-height (h), that is, on the mean line and the base line be edges e1 and e2 respectively, then there exists a **smaller** peak p1 being the accumulated **picture elements** of the **letters** higher than the mean line above the edge e1 in the histogram and also exists a **smaller** peak p2 being the accumulated **picture elements** of the **letters** lower than the base line below the edge e2 in the histogram. The side of the original where the **smaller** peak p1 is in existence is discriminated to be the **top** of the **character** string because the frequency of the use of the **letters** above the mean line is more than that of the **letters** below the base line.

19/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
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05123997 **Image available**
VIDEO PRINTER

PUB. NO.: 08-079497 [JP 8079497 A]
PUBLISHED: March 22, 1996 (19960322)
INVENTOR(s): KAMIKUBOTA MASAFUMI
APPLICANT(s): FUJI PHOTO FILM CO LTD [000520] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 06-210089 [JP 94210089]
FILED: September 02, 1994 (19940902)

INTL CLASS: H04N-001/387; B41J-005/30; **G06T-003/60** ; H04N-001/23

ABSTRACT

PURPOSE: To secure coincidence of directions between video images and **character** images of a photographing date, etc., by **changing** automatically these two directions...

...image memory 15 with coincidence secured between up-dot direction of the memory 15 and **top - bottom** direction of the video images. The **character** data obtained by evolving the **character** images of a photographing date, etc., are written in a RAM 29 in the same direction as the up-down direction of **characters**. In a full-size mode, the image and **character** data are read out of both memories 15 and 29 respectively from the left to the right and by each line consisting of **pixels** arrayed in the vertical direction. In a half-size mode, the image data are read...

... memory 15 from the upper side to the lower side by each line consisting of **pixels** arrayed in the horizontal direction and then thinned and **reduced** after a 90 deg. turn. Meanwhile the **character** images are read out of the RAM 29 from the upper side to the lower side by each line consisting of **pixels** arrayed in the horizontal direction and undergo the vertical/horizontal conversion against the video images. Then both video and **character** images are set in each other and synthesized together through an image synthesization **part** 21, and these synthesized images are printed.

19/3,K/3 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
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04853643 **Image available**
SYMBOL DETECTOR

PUB. NO.: 07-146243 [JP 7146243 A]
PUBLISHED: June 06, 1995 (19950606)
INVENTOR(s): NAGASAKI HIROSHI
KIMURA YORIAKI
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 05-293536 [JP 93293536]
FILED: November 24, 1993 (19931124)

INTL CLASS: G01N-021/88; G06T-007/00

ABSTRACT

... wherein a binary-coded image stored is scanned from a specified direction to determine a **changing point** from a non-symbol image to a symbol image and the symbol image at the **changing point** is altered to the non-symbol image to remove effect by the seepage of ink...

...CONSTITUTION: A **character**, mark and the like to be detected are taken with a camera 1 and binary coded with an A/D converter of a binary coding processing **section** 2a to be stored into an image memory 2c of an image memory block 11...

...2e is taken in to be scanned downward to the right from the left and **pixels** of black are turned to white at the **changing point** where the **pixels** of the image **change** to the black from white to be stored into an image memory 2f. The same...

...right to the left and downward to be stored into a memory 2g, from the **top** to the **bottom** and from the left to the right to be stored into a memory 2h and from the **bottom** to the **top** and from the left to the right to be stored into a memory 2i. An image data stored is rearranged in a fine line by ANDing computation for each **pixel** and is stored into an image memory 2j after the removal of the effect by...
?

21/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.

03089262 **Image available**
CHARACTER PROCESSOR

PUB. NO.: 02-064762 [JP 2064762 A]
PUBLISHED: March 05, 1990 (19900305)
INVENTOR(s): WADA YUZO
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 63-214872 [JP 88214872]
FILED: August 31, 1988 (19880831)
JOURNAL: Section: P, Section No. 1053, Vol. 14, No. 249, Pg. 51, May
28, 1990 (19900528)

CHARACTER PROCESSOR

ABSTRACT

PURPOSE: To make cursor operation easy and to make **editing** work, etc., efficient by **changing** the form of the cursor of a display according to positional relation in a document...

... cursor is investigated. When the cursor is positioned between a top margin 1 and a **top** margin proximate **line** 5, the cursor is lighted in the form of 2-2 and processing is ended...

21/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.

01891568 **Image available**
ELECTRONIC TYPEWRITER

PUB. NO.: 61-105668 [JP 61105668 A]
PUBLISHED: May 23, 1986 (19860523)
INVENTOR(s): KAWASHIMA MASAMITSU
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 59-227213 [JP 84227213]
FILED: October 29, 1984 (19841029)
JOURNAL: Section: P, Section No. 502, Vol. 10, No. 288, Pg. 28,
September 30, 1986 (19860930)

ABSTRACT

PURPOSE: To enable to continuously process **editing** /proofing with easy operations, by moving the sentence to be corrected to the next line...

... next to the last position of the line, short sound is issued to inform the **change** of line, and next line is read out from a memory 8, and displayed in the **character** display part 15 setting the cursor at the **top** of the **line** , and then completes the rightward movement of the cursor. When the cursor is not at...

... In this way, by only one kind of operation of the cursor rightward movement key, **editing** , correction and confirmation can be done to the sentences from the beginning to the end...

21/3,K/3 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.

01861560 **Image available**
FACSIMILE EQUIPMENT

PUB. NO.: 61-075660 [JP 61075660 A]
PUBLISHED: April 18, 1986 (19860418)
INVENTOR(s): KIKUCHI MASAYUKI
HANAZAWA KAZUOKI
APPLICANT(s): OKI ELECTRIC IND CO LTD [000029] (A Japanese Company or
Corporation), JP (Japan)
APPL. NO.: 59-196748 [JP 84196748]
FILED: September 21, 1984 (19840921)
JOURNAL: Section: E, Section No. 431, Vol. 10, No. 248, Pg. 17, August
26, 1986 (19860826)

ABSTRACT

PURPOSE: To eliminate the necessity to make edition for each image **line**
and **top** shorten the time for edition remarkably by providing a memory
for 1 **character** line and a **changeover** switch...

...CONSTITUTION: A **character** pattern stored in an ROM is edited according
to an **editing** program, and image data for 1 **character** line are edited
in an RAM. A printing section and image line data D7 on...

...data are transferred and printed. By making this process until DC, image
data for 1 **character** line are transferred and printed.

21/3,K/4 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

007956783 **Image available**
WPI Acc No: 1989-221895/198931
XRPX Acc No: N89-169316

**Automatic page end feature for an electronic typewriter - shifts
effective page and point to shift or phan line of next to next page**

Patent Assignee: IBM CORP (IBMC)
Inventor: COOK S A; GERSTLE P J; SMITH D R; STILZ K R
Number of Countries: 006 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 325883	A	19890802	EP 88480079	A	19881122	198931 B
BR 8900351	A	19890919				198943
US 4889439	A	19891226	US 88149805	A	19880129	199008

Priority Applications (No Type Date): US 88149805 A 19880129

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 325883	A	E 12		

Designated States (Regional): DE FR GB IT
US 4889439 A 12

...Abstract (Basic): ending to accomodate the widow line on the present
page (11) rather than forcing the **line** to the **top** of the next page

...

...The text is not **altered** in the memory of the typewriter and no stop codes or page end codes are...

...Abstract (Equivalent): As each **character** is played, the line of text in which it resides is checked to determine its...

...continual checking of the relative locations, and does not require page ending stop codes. If **editing** occurs, which shifts the text, the processing of the text codes, as the text is...

?

22/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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04259190 **Image available**

CHARACTER **FONT** READ ONLY MEMORY AND CHARACTER **FONT** READ ONLY MEMORY
ACCESS CIRCUIT

PUB. NO.: 05-250890 [JP 5250890 A]
PUBLISHED: September 28, 1993 (19930928)
INVENTOR(s): KOBAYASHI MITSURU
APPLICANT(s): NEC NIIGATA LTD [491611] (A Japanese Company or Corporation),
JP (Japan)
APPL. NO.: 04-045145 [JP 9245145]
FILED: March 03, 1992 (19920303)
JOURNAL: Section: P, Section No. 1672, Vol. 18, No. 14, Pg. 160,
January 11, 1994 (19940111)

CHARACTER **FONT** READ ONLY MEMORY AND CHARACTER **FONT** READ ONLY MEMORY
ACCESS CIRCUIT

ABSTRACT

... a memory capacity without adding an external circuit by storing prescribed data in a character **font** ROM and performing a prescribed transformation by an address transforming unit...

...CONSTITUTION: A character **font** ROM 3 stores the data which contain letter face sections of each character **font** data without the top and the bottom body face sections and '0' data of **eight** bits or **sixteen** bits in which prescribed addresses are stored. During a reading, an address 7 is supplied...

... a prescribed transformation to an address 7. The transformed address 8 is supplied to a **font** ROM 3 and the character **font** data are read by a ROM output signal 9 without using an expander.
?

27/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

013362902 **Image available**
WPI Acc No: 2000-534841/200049
XRPX Acc No: N00-395692

Mapping apparatus for storage of bitmap font data within data processing systems, comprises two lookup tables for generating address from information in first table using error value and position N within second table

Patent Assignee: ARM LTD (ARMA-N); ADVANCED RISC MACHINES LTD (ADRI-N)

Inventor: SYMES D; SYMES D H

Number of Countries: 006 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2346470	A	20000809	GB 992664	A	19990205	200049 B
JP 2000227789	A	20000815	JP 99180722	A	19990625	200054
CN 1263306	A	20000816	CN 99108958	A	19990705	200055
US 6236342	B1	20010522	US 99306408	A	19990506	200130
KR 2000076581	A	20001226	KR 20004843	A	20000201	200134
TW 427079	A	20010321	TW 99107408	A	19990506	200151
US 6304198	B1	20011016	US 99306408	A	19990506	200164
			US 2000671122	A	20000928	

Priority Applications (No Type Date): GB 992664 A 19990205

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2346470	A		27	H03M-007/42	
JP 2000227789	A		10	G09G-005/22	
CN 1263306	A			G06F-012/04	
US 6236342	B1			H03M-007/40	
KR 2000076581	A			G06F-012/02	
TW 427079	A			H03M-007/40	
US 6304198	B1			H03M-007/40	Div ex application US 99306408

Mapping apparatus for storage of bitmap font data within data processing systems, comprises two lookup tables for generating address from information in first table using error value and position N within second table

Abstract (Basic):

... Pictograph **font characters** represented by **character codes** (2) is used to determine an address (8) within a variable length coded data...

...Table 1 returns an initial offset HuffOff, an average size AvSz of data for a **character** and a **pointer** TB2Off to a **second** Table 2. The **pointer** specifies the beginning of a range of entries in the **second** table to be matched against rest of the **character** code to lookup an error value Err, this leads to the **generation** of the address (8).

... CLAIM is also included for a method of mapping an A-bit code to a **storage** location within a memory of variable length code data representing A-bit code...

...For **storage** of bitmap **font** data within data processing systems...

... **Reduces** the overall **storage** capacity needed for lookup operations by realization that the position of the variable length coded data corresponding to a particular **character** can be estimated with only the error in that estimation having to be **stored** for an individual

character .

...

...The figure illustrates a technique for mapping an A-bit **font character** code to a **storage** location within a memory holding variable length coded data representing a **pixel** bitmap of that **character** .

...Title Terms: **STORAGE** ;

27/3,K/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012244286 **Image available**

WPI Acc No: 1999-050393/199905

XRPX Acc No: N99-037260

Dot matrix type LCD device - has selector which chooses dot patterns held by first and second data latches that should be relayed to the electrodes arranged in LCD

Patent Assignee: OKI ELECTRIC IND CO LTD (OKID); OKI MICRO DESIGN

MIYAZAKI KK (OKID)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10301542	A	19981113	JP 97112506	A	19970430	199905 B

Priority Applications (No Type Date): JP 97112506 A 19970430

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 10301542	A	10	G09G-003/36	

... **has selector which chooses dot patterns held by first and second data latches that should be relayed to the electrodes arranged in LCD**

...Abstract (Basic): includes an LCD (11) which contains x electrodes (11x) orthogonally crossing with y electrodes (11y). **Pixels** are shown on the intersecting **portion** of the electrodes through the drive voltage sequentially applied to the electrodes. **Characters** are shown on the LCD by grouping the **pixels** into the corresponding **character** groups. The code corresponding to the position by which the **characters** are shown on the LCD is **stored** into a RAM (12). A **character** pattern is then output from a ROM (13) based on the code read out from...

...The dot pattern corresponding to the sequentially-relayed codes is **produced** by a **character** pattern **generating** unit. Dot patterns equivalent to one **character** line is held by a data latch (15), while dot patterns equal to one line are output from a **second** RAM (21) and held by a **second** data latch (22). Based on selecting signal (SEL), a selector (31) chooses the dot patterns...

...ADVANTAGE - **Reduces** operating and component costs...

...Title Terms: **SECOND** ;

27/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010972073 **Image available**

WPI Acc No: 1996-469022/199647

XRPX Acc No: N96-395264

Image generation appts for performing texture mapping - calculates brightness value at each pixel position based on additional attribute value at each pixel position and is then displayed on display screen

Patent Assignee: NEC CORP (NIDE)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8235379	A	19960913	JP 9559862	A	19950223	199647 B

Priority Applications (No Type Date): JP 9559862 A 19950223

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8235379	A	10	G06T-015/40	

Image generation appts for performing texture mapping...

...calculates brightness value at each pixel position based on additional attribute value at each pixel position and is then displayed on display screen

...Abstract (Basic): The image **generation** appts has a table in which the image corresponding to a number of objects defined in 3-D space, is **stored** . The optical reflective transparent **character** of data is displayed. An optical setting **part** stores the object data containing a corresponding feature data of an object. An output **part** (3) outputs the **pixel** position in the order of priority on the screen corresponding to a number of objects displayed on the screen. A **pixel** value calculation **part** (2) calculates the **pixel** value which is not to be displayed on the screen, based on the depth and...

...The pixel which is output in the order of priority is displayed without erasing. The mapping **part** calculates an **additional** attribute value at each **pixel** position on the screen, where the image corresponding to an object is displayed by an acquisition to the attribute value and mapping being based on the corresponding position of **pixel** output in an order of priority. A brightness calculation **part** (5) calculates the brightness value of each concerned **pixel** position based on the **additional** attribute value, for mapping. A display **part** displays the image corresponding to the object of a number of screen...

...ADVANTAGE - Enables display of semi-transparent object. **Reduces** number of processing...

...Title Terms: **GENERATE ;**

27/3,K/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010646505 **Image available**

WPI Acc No: 1996-143459/199615

XRPX Acc No: N96-120234

Pattern and character display method for graphic display device - involves providing pattern and character display that is meaningful by comparing with that stored in memory

Patent Assignee: FUJI ELECTRIC CO LTD (FJIE); FUJIFACON CORP (FUJX)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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JP 8030255 A 19960202 JP 94162559 A 19940715 199615 B

Priority Applications (No Type Date): JP 94162559 A 19940715

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8030255	A		9	G09G-005/36	

Pattern and character display method for graphic display device...

...involves providing pattern and character display that is meaningful by comparing with that stored in memory

...Abstract (Basic): of a memory (3) to store the pattern data (OD) containing the pattern and the **character**. The primary pattern data to be displayed is selected from the memory and transferred to a **second** memory (2) by a control operation device (1). A processing unit (OSP) processes the primary pattern data and scale information (C2) to **generate** a pattern type code rate of scale and the dimension of the pattern...

...The pattern and graphic display character obtained by scale generation of primary pattern data is compared with the processing information **stored** in the first memory by a processing information **part** (PIF). The judgment of whether the pattern and the **character** is meaningful, when compared to the data **stored** in the first memory is carried out. The display data (DD) corresponding to each **pixel** is formed from the meaningful judged data. The display data thus formed is displayed by...

...ADVANTAGE - Provides effective display at high speed. Provides legible and **reduced** pattern display in short time...

...Title Terms: **CHARACTER** ;

27/3,K/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010493305 ****Image available****

WPI Acc No: 1995-394625/199551

Related WPI Acc No: 1991-289758

XRPX Acc No: N95-287762

Colour image processing apparatus for example laser printer - inputs image information and converts it to dot information for each colour component which is stored in memory and buffered, it is read out from buffer and fed to image former in synchronisation with synchronisation signal

Patent Assignee: CANON KK (CANO)

Inventor: KASHIHARA A; KATAOKA H; OHTAKE M; SAKAKI E; SETO K; TORISAWA A; UENO F; ITO Y

Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 683601	A2	19951122	EP 95113500	A	19910328	199551 B
EP 683601	A3	19960327	EP 91105075	A	19910328	199624
			EP 95113500	A	19910328	
US 5596426	A	19970121	US 91675278	A	19910326	199710
			US 93139050	A	19931021	
			US 94263408	A	19940621	
			US 95479466	A	19950607	

US 5629781	A	19970513	US 91675278	A	19910326	199725
			US 93139050	A	19931021	
			US 94263408	A	19940621	
			US 95475497	A	19950607	
EP 683601	B1	20020213	EP 91105075	A	19910328	200212
			EP 95113500	A	19910328	
DE 69132933	E	20020321	DE 632933	A	19910328	200227
			EP 95113500	A	19910328	

Priority Applications (No Type Date): JP 90199480 A 19900726; JP 9086164 A 19900330

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 683601	A2	E	43	H04N-001/64	
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Designated States (Regional): DE FR GB IT

EP 683601	A3				
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Div ex application EP 91105075

US 5596426	A		40	H04N-001/46	
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Cont of application US 91675278

Cont of application US 93139050

Cont of application US 94263408

US 5629781	A		40	H04N-001/54	
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Cont of application US 91675278

Cont of application US 93139050

Div ex application US 94263408

EP 683601	B1	E		G06K-015/00	
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Div ex application EP 91105075

Div ex patent EP 449313

Designated States (Regional): DE FR GB IT

DE 69132933	E			G06K-015/00	
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Based on patent EP 683601

... inputs image information and converts it to dot information for each colour component which is stored in memory and buffered, it is read out from buffer and fed to image former...

...Abstract (Basic): the image information into dot information for each colour component. The converted dot information is **stored** in memory (2 and 3). The dot information read from the memory is buffered (31...

...former in synchronisation with a synchronising signal from the image former. The converter includes a **second** memory for storing a bitmap or outline **font** corresp. to a text code...

...printer for forming images of several colours based on image signals transmitted from host computer **stored** in auxiliary **storage** disk...

...ADVANTAGE - Transmits image continuously at high speed asynchronously with printer output. Cost is **reduced** by **reducing** memory cost, and processing images at high speed...

...Abstract (Equivalent): a plurality of **storage** means, each for storing image data corresponding to plural **portions**, each of which includes a plurality of **pixels**, in one page...

...a plurality of read means for respectively reading out the image data corresponding to different **portions** from said plurality of **storage** means in parallel; and...

...output means for receiving the image data corresponding to the plurality of the **portions** which are in parallel read out from said plurality of **storage** means by said plurality of read means, and serially outputting the image data as one...

...wherein each **portion** read in parallel by said plurality of read means is different from one **another**.

...
...A color image processing apparatus for receiving code data supplied from an external apparatus, **generating** dotted image data based on the code data, and outputting the dotted image data, comprising...

...image data **generating** means for **generating** dotted image data for each color component based on the code data...

... **storage** means for storing the dotted image data for one page...

...means capable of buffering one scan line of the dotted image data read from said **storage** means

...Title Terms: **STORAGE** ;

27/3,K/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

009703323 **Image available**
WPI Acc No: 1993-396876/199350
Related WPI Acc No: 1996-457205; 1998-389700; 2001-543085
XRPX Acc No: N93-306755

Label printing appts. - stores font data for number of characters and determines printing and displaying sizes according to appropriate scaling factors

Patent Assignee: ESSELTE DYMO NV (ESSP); ESSELTE NV (ESSP)

Inventor: BEADMAN M A; MARTIN P

Number of Countries: 006 Number of Patents: 012

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 574225	A1	19931215	EP 93304435	A	19930608	199350 B
AU 9340047	A	19931216	AU 9340047	A	19930604	199406
AU 666940	B	19960229	AU 9340047	A	19930604	199616
AU 9650839	A	19960711	AU 9340047	A	19930604	199635
			AU 9650839	A	19960423	
DE 9321292	U1	19970109	DE 93U21292	U	19930608	199707
			EP 96110283	A	19930608	
US 5595450	A	19970121	US 9371120	A	19930602	199710
EP 574225	B1	19970219	EP 93304435	A	19930608	199713
DE 69308173	E	19970327	DE 608173	A	19930608	199718
			EP 93304435	A	19930608	
AU 682129	B	19970918	AU 9340047	A	19930604	199746
			AU 9650839	A	19960423	
US 5733051	A	19980331	US 9371120	A	19930602	199820
			US 96692664	A	19960806	
US 5967679	A	19991019	US 9371120	A	19930602	199950
			US 96692664	A	19960806	
			US 9846633	A	19980324	
US 6079889	A	20000627	US 9371120	A	19930602	200036
			US 96692664	A	19960806	
			US 9846635	A	19980324	

Priority Applications (No Type Date): GB 93748 A 19930115; GB 9212439 A 19920611

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 574225 A1 E 13 B41J-003/46

Designated States (Regional): DE FR GB IT

AU 9340047	A	G06K-015/02	
AU 666940	B	G06K-015/02	Previous Publ. patent AU 9340047
AU 9650839	A	G06K-015/02	Div ex application AU 9340047
DE 9321292	U1	44 B41J-002/325	Application no. EP 96110283
US 5595450	A	12 B41J-003/46	
EP 574225	B1 E	17 B41J-003/46	
Designated States (Regional): DE FR GB IT			
DE 69308173	E	B41J-003/46	Based on patent EP 574225
AU 682129	B	G06K-015/02	Div ex application AU 9340047
			Previous Publ. patent AU 9650839
US 5733051	A	11 B41J-003/46	Cont of application US 9371120
US 5967679	A	B41J-011/26	Cont of application US 9371120
			Div ex application US 96692664
			Cont of patent US 5595450
			Div ex patent US 5733051
US 6079889	A	B41J-011/26	Cont of application US 9371120
			Cont of application US 96692664
			Cont of patent US 5595450
			Cont of patent US 5733051

... stores font data for number of characters and determines printing and displaying sizes according to appropriate scaling factors

...Abstract (Basic): The label printing apparatus includes a keyboard for selecting **characters** for composing a label to be printed, display for the **characters** selected, and a printer for printing the **characters** on an image receiving tape to **produce** a label. The printing apparatus further comprises a memory for **font** data defining a number of **characters** and a controller for recalling **font** data for **characters** selected at the keyboard...

...The controller is operable to apply a first scaling factor to the **font** data to **produce pixel** data for driving the display, and a **second** scaling factor to **produce pixel** data for driving the printer. The **font** data is Bezier data, defining Bezier **points** for lines and curves of the **character** .

...

...ADVANTAGE - Provides wider range of **character** sizes for printing or displaying which is continuously scalable allowing label to be **reduced** in size while maintaining its proportions

...Abstract (Equivalent): A label printing apparatus comprising: input means (106) for selecting **characters** for composing a label to be printed; display means (108) for displaying the **characters** selected at the input means (106); printing means (16) for printing said **characters** on an image receiving tape (4) to **produce** a label; **storage** means (102) for storing common **font** data defining a plurality of **characters** ; and a controller (100) for recalling common **font** data for **characters** selected at said input means (106) and operable to apply a first scaling factor to said common **font** data to **produce display pixel** data for driving the display means (108) to display the **character** and a **second** scaling factor to said **font** data to **produce print pixel** data for driving said printing means (16) to print the **character** whereby the **characters** displayed on the display means (108) resemble the **characters** which are printed by the printing means (16) and differ only in their resolution...

...Abstract (Equivalent): input means for selecting **characters** for composing a label to be printed...

...display means for displaying the **characters** selected at the input

means...

...printing means for printing said **characters** on an image receiving tape to define a label...

...cutting means for cutting off a **portion** of said image receiving tape including said label...

... **storage** means for storing common **font** data defining each of a plurality of **characters** ; and...

...a controller for recalling said common **font** data for each **character** selected at said input means and operable to apply a first scaling factor to said common **font** data to **produce** display **pixel** data for driving the display means to display the **character** and a **second** scaling factor to said **font** data to **produce** print **pixel** data for driving said printing means to print the **character** whereby the **characters** displayed on the display means exactly resemble the **characters** which are printed by the printing means and differ only in their resolution

...Title Terms: **STORAGE** ;

27/3,K/7 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009082218 **Image available**

WPI Acc No: 1992-209635/199226

XRPX Acc No: N92-158995

Display control circuit and external memory for TV games - stores picture and mask data in memory and generates masking signal for range of position data and uses signal to gate picture data

Patent Assignee: NINTENDO CO LTD (NINT); RICOH KK (RICO)

Inventor: NISHIUMI S; OTAKE M; OTSUKI T; TAKAHASHI T

Number of Countries: 009 Number of Patents: 011

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 491468	A2	19920624	EP 91310575	A	19911115	199226 B
AU 9187933	A	19920521	AU 9187933	A	19911115	199229
CA 2055702	A	19920518	CA 2055702	A	19911115	199232
EP 491468	A3	19950426	EP 91310575	A	19911115	199545
AU 668500	B	19960509	AU 9187933	A	19911115	199626
US 5587723	A	19961224	US 91792196	A	19911113	199706
			US 94226891	A	19940413	
CA 2055702	C	19970527	CA 2055702	A	19911115	199733
EP 491468	B1	19970813	EP 91310575	A	19911115	199737
DE 69127269	E	19970918	DE 627269	A	19911115	199743
			EP 91310575	A	19911115	
JP 3073519	B2	20000807	JP 90312410	A	19901117	200042
KR 237238	B1	20000115	KR 9120759	A	19911118	200114

Priority Applications (No Type Date): JP 90312410 A 19901117

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 491468 A2 E 18 G09G-005/14

Designated States (Regional): DE FR GB SE

AU 9187933 A G06F-003/153

CA 2055702 A G09G-005/36

EP 491468 A3 G09G-005/14

AU 668500	B		G06F-003/153	Previous Publ. patent AU 9187933
US 5587723	A	17	G09G-001/16	Cont of application US 91792196
CA 2055702	C		G09G-005/36	
EP 491468	B1 E	20	G09G-005/14	
Designated States (Regional): DE FR GB SE				
DE 69127269	E		G09G-005/14	Based on patent EP 491468
JP 3073519	B2	14	G09G-005/36	Previous Publ. patent JP 4182698
KR 237238	B1		G09G-005/36	

... stores picture and mask data in memory and generates masking signal for range of position data and uses signal to gate picture data

...Abstract (Basic): The display control circuit includes an external memory in which position data representing two **points** in a horizontal direction on a screen are **stored** together with still picture pattern data and **character** data. A counter is incremented for each dot or **pixel** on the screen. A masking signal is obtained in a range where each of the...

...windows of complex shape. Allows window to appear instantaneously. No need to update screen RAM. **Reduced** burden on CPU...

...Abstract (Equivalent): scan monitor while masking a range of the screen, the control apparatus comprising: picture data **generating** means for **generating** picture data; first position data **generating** means for **generating** first position data representing two **points** in a horizontal direction on the screen; **second** position data **generating** means for **generating** **second** position data representing two other **points** in a horizontal direction on the screen; first mask signal **generating** means for **generating** a first mask signal in accordance with the first position data during horizontal scanning of the raster scan monitor; **second** mask signal **generating** means for **generating** a **second** mask signal in accordance with the **second** position data; selecting means for selecting any one of a plurality of logical operations of the first mask signal and the **second** mask signal; third mask signal **generating** means for **generating** a third mask signal by performing one of the plurality of logical operations being selected by the selecting means; gating means coupled to the picture data **generating** means for gating the picture data received from the picture data **generating** means in accordance with the third mask signal; and video signal **generating** means for converting the picture data gated by the gating means into a video signal...

...Abstract (Equivalent): for displaying a picture on a screen of a raster scan monitor while masking a **portion** of said screen, said control apparatus comprising...

...a position data output device for **generating** position data representing two **points** in a horizontal direction on said screen...

...means for **changing** the position data of the two **points** between two or more horizontal lines on said screen...

...a picture data **generator** for **generating** picture data including means for **generating** moving object picture data and means for **generating** background picture data...

...a mask signal **generator** for **generating** a mask signal in accordance with said position data during horizontal scanning of said raster...

...a logic gate connected to said priority circuit and said mask signal **generator** for gating said picture data received from said priority

circuit in accordance with said mask...

...a video signal **generator** for converting the picture data gated by said logic gate into a video signal compatible...

...wherein said means for **changing changes** the shape of the masked screen **portion** by **changing** the position data of the two **points** between two or more horizontal lines on said screen...

...Title Terms: **STORAGE** ;

27/3,K/8 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009056476 **Image available**

WPI Acc No: 1992-183867/199222

XRPX Acc No: N92-138713

Computer system for recognition of handwritten digits - locates predetermined pixel group such as zip code from address block in digital pixel image representing columns and rows

Patent Assignee: ENVIRONMENTAL RES INST MICHIGAN (ENVI-N)

Inventor: MCCUBBREY D L

Number of Countries: 002 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9208203	A1	19920514	WO 91US3624	A	19910523	199222 B
US 5216725	A	19930601	US 90606578	A	19901031	199323
EP 555227	A1	19930818	EP 91915082	A	19910523	199333
			WO 91US3624	A	19910523	
JP 6501800	W	19940224	JP 91514410	A	19910523	199413
			WO 91US3624	A	19910523	
US 5544259	A	19960806	US 90606578	A	19901031	199637
			US 9339813	A	19930329	
			US 94272949	A	19940711	
			US 95541938	A	19951010	

Priority Applications (No Type Date): US 90606578 A 19901031; US 9339813 A 19930329; US 94272949 A 19940711; US 95541938 A 19951010

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9208203	A1	E	37	G06K-009/36	
US 5216725	A		12	G06K-009/34	
EP 555227	A1	E		G06K-009/36	Based on patent WO 9208203
JP 6501800	W			G06K-009/72	Based on patent WO 9208203
US 5544259	A		11	G06K-009/34	Div ex application US 90606578
					Cont of application US 9339813
					Cont of application US 94272949
					Div ex patent US 5216725

... **locates predetermined pixel group such as zip code from address block in digital pixel image representing columns and rows**

...Abstract (Basic): calculates inter stroke distances and image strokes are thinned to enhance vertical line sepn. The **characters** are grouped into blocks, based on their separations, and the blocks skeletonised into lines extending...

...horizontal length of each block. The resulting images are dilated in a vertical direction to **create** box areas of uniform vertical thickness

...

...Abstract (Equivalent): A computer system for locating a predetermined group of **characters** from a plurality of handwritten **characters** characterized by a plurality of spaced, horizontally aligned, vertical strokes, said **characters** being chosen from a digital **pixel** image consisting of foreground **pixels** and background **pixels** set forth in an array of columns and row, said foreground image **pixels** defining said **characters** , said computer system comprising...

...means for assigning each of said plurality of **characters** to one of a plurality of discrete **character** lines...

...means for selecting a desired discrete **character** line from said plurality of discrete **character** lines...

...scanning means for **generating** a digital data stream corresponding to individual **pixels** of said digital **pixel** image...

...means for storing sequential **portions** of said digital data stream in a two-dimensional array...

...means for recognizing from said **stored** data array contiguous foreground image **pixels** corresponding to vertical strokes and defining adjacent pairs thereof...

...means for grouping the plurality of **characters** together into blocks based on the interstroke distance and on a **second** or subsequent peak of said histogram corresponding to a wider horizontal distance between said **characters** , said **characters** being separated by the interstroke distance and said blocks being separated by the wider distance...

...means for selecting said predetermined group of **characters** from those grouped **character** blocks associated with said selected discrete **character** line by using said interstroke distance...

...large enough to contain a ZIP code based on bounding box size is then selected. **Alternate** splits of words are formed and the best split is selected in which the last...

...Title Terms: **PIXEL** ;

27/3,K/9 (Item 9 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
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009040715 **Image available**
 WPI Acc No: 1992-168073/199221
 XRPX Acc No: N92-126648

Display and transfer of graphical information - using combined matrix display and input matrix panel and storing position of writing element in memory for direct transfer to controller for pixel display

Patent Assignee: TELENORMA GMBH (TELN)
 Inventor: FREITAG O; ZANELLA R
 Number of Countries: 001 Number of Patents: 002
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4035899	A	19920514	DE 4035899	A	19901112	199221 B
DE 4035899	C2	19930902	DE 4035899	A	19901112	199335

Priority Applications (No Type Date): DE 4035899 A 19901112
 Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 4035899	A		5	G06F-003/03	
DE 4035899	C2		5	G06F-003/033	

... panel and storing position of writing element in memory for direct transfer to controller for pixel display

...Abstract (Basic): a coordinate plate (4) with conductors for x and y directions on both sides. At **points** excited by x and y drive signals, a **change** in temperature occurs and the display is activated. The signals are **generated** by the image memory (SP...

...A **second** coordinate plate (8) is separated from the display and responds to a non-contact writing...

...Abstract (Equivalent): The tactile display, for simultaneous display and transmission of hand-written **characters**, has coordinate conductor paths for electronically sensing the writing movement of a pen, the corresponding...

...to the display control (AZ-ST). This controls the coordinate voltages supplied to intersecting display **points**, to provide **point** heating of a heat-sensitive display foil (1) exhibiting light transparency variations at the heated **points**, for displaying the written **character**.

...Title Terms: **STORAGE** ;

27/3,K/10 (Item 10 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
 (c) 2003 Thomson Derwent. All rts. reserv.

008456379 **Image available**
 WPI Acc No: 1990-343379/199046
 Related WPI Acc No: 1990-343380; 1990-343384
 XRPX Acc No: N95-048183

Digital colour image processing system - controls processing unit to preferentially execute high-resolution processing for area where colour and binary images overlap each other

Patent Assignee: CANON KK (CANO)

Inventor: ICHIKAWA H; IKEDA Y; KITAMURA T; KURITA M; SUZUKI Y; KATO K;
 KATOH K

Number of Countries: 006 Number of Patents: 018

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 397428	A	19901114	EP 90304905	A	19900504	199046	B
JP 2294161	A	19901205	JP 89115685	A	19890508	199104	
JP 2294880	A	19901205				199104	
JP 2295344	A	19901206	JP 89117001	A	19890510	199104	
JP 2295353	A	19901206	JP 89117054	A	19890510	199104	
JP 3072780	A	19910327				199119	
JP 3072781	A	19910327	JP 89296788	A	19891114	199119	
US 5206719	A	19930427	US 90519272	A	19900504	199318	
EP 397428	A3	19920610	EP 90304905	A	19900504	199332	
EP 397433	A3	19920805	EP 90304914	A	19900504	199336	
US 5381248	A	19950110	US 90519498	A	19900504	199508	
			US 93117657	A	19930908		
EP 397428	B1	19970129	EP 90304905	A	19900504	199710	
DE 69029821	E	19970313	DE 629821	A	19900504	199716	
			EP 90304905	A	19900504		

US 5617224	A	19970401	US 90519840	A	19900504	199719
			US 92936723	A	19920831	
			US 94191146	A	19940203	
EP 397433	B1	19970416	EP 90304914	A	19900504	199720
JP 9172544	A	19970630	JP 89296788	A	19891114	199736
			JP 96303030	A	19891114	
US 5940192	A	19990817	US 90519840	A	19900504	199939
			US 92936723	A	19920831	
			US 94191146	A	19940203	
			US 95477544	A	19950607	
JP 3015308	B2	20000306	JP 89296788	A	19891114	200016
			JP 96303030	A	19891114	

Priority Applications (No Type Date): JP 89296788 A 19891114; JP 89115685 A 19890508; JP 89117001 A 19890510; JP 89117007 A 19890510; JP 89117010 A 19890510; JP 89117054 A 19890510; JP 89117055 A 19890510; JP 89138941 A 19890531; JP 96303030 A 19891114

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing	Notes
EP 397428	A		156			
Designated States (Regional): FR GB IT						
JP 3015308	B2		73	H04N-001/40	Div ex application	JP 89296788
						Previous Publ. patent JP 9172544
US 5206719	A		156	H04N-001/46		
EP 397428	A3		156			
EP 397433	A3		156			
US 5381248	A		146	H04N-001/46	Cont of application	US 90519498
EP 397428	B1 E	153		H04N-001/387		
Designated States (Regional): DE FR GB IT						
DE 69029821	E			H04N-001/387	Based on patent	EP 397428
US 5617224	A		156	H04N-001/58	Cont of application	US 90519840
						Cont of application US 92936723
EP 397433	B1 E	169		H04N-001/387		
Designated States (Regional): DE FR GB IT						
JP 9172544	A		73	H04N-001/40	Div ex application	JP 89296788
US 5940192	A			H04N-001/46	Cont of application	US 90519840
						Cont of application US 92936723
						Div ex application US 94191146
						Div ex patent US 5617224

...Abstract (Basic): stores the binary image and a device binarises the input colour image which is also **stored** in the memory...

...ADVANTAGE - Improved reproducibility of black **character** and simple structure. (156pp Dwg.No.1/76)

...Abstract (Equivalent): A colour image forming apparatus comprising: means (A) for **generating** colour component data (100-102); processing means (B-G) for processing the colour component data...

...for inputting first image data representing a first image which can include both halftone and **character** image **portions**; **second** input means (M) for inputting **second** image data representing a **second** image; and synthesizing means (F) for synthesizing the first image data and the **second** image data outputting synthesized image data representing a synthesized image which is a combination of first and **second** image data, characterised in that the apparatus further comprises: means (I) for detecting **character** **portions** in the first image based on the first image data and **generating** a control signal (140) for controlling the resolution with which the **character** **portions** of the image are reproduced so that the resolution with which

the **character portions** are reproduced is higher than the resolution with which the halftone image **portions** of the image are reproduced, and control mens (502) for making the control signal non-effective within any region of the synthesized image which includes the **second image**...

...Abstract (Equivalent): image represented by the mosaic-processed image data is lower than the predetermined resolution without **changing** either a size of the image or a number of **pixels** for the image, and, in the normal processing mode, outputs processed image data so that...

...The, image processing apparatus has a colour image signal input and extractor for the outline **portion** from the colour image signal. An output remover the colour image signal in an area other than the outline **portion** and outputs the colour image signal representing the extracted outline **portion** in multi-colors based on the input colour image signal. ADVANTAGE - Can easily obtain desired...

27/3,K/11 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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008404707 **Image available**
WPI Acc No: 1990-291708/199039
XRPX Acc No: N90-224580

Printed character texture discrimination - using discriminant function for discrimination of characters against any background

Patent Assignee: HITACHI LTD (HITA)
Inventor: MATSUSHIMA H; SAKOU H
Number of Countries: 003 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 388725	A	19900926	EP 90104476	A	19900308	199039 B
EP 388725	A3	19920812	EP 90104476	A	19900308	199336
US 5448651	A	19950905	US 90496228	A	19900320	199541
			US 94267552	A	19940621	
EP 388725	B1	19960904	EP 90104476	A	19900308	199640
DE 69028332	E	19961010	DE 628332	A	19900308	199646
			EP 90104476	A	19900308	

Priority Applications (No Type Date): JP 8966122 A 19890320

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5448651	A		9	G06K-009/34	Cont of application US 90496228
EP 388725	B1 E		17	G06K-009/20	
Designated States (Regional): DE GB					
DE 69028332	E			G06K-009/20	Based on patent EP 388725

Printed character texture discrimination...

...using discriminant function for discrimination of characters against any background

...Abstract (Basic): analyses the projection profile of the grey image background and sets a learning area A. **Another** learning area B consists of the printed **characters** together with **part** of the background. A discriminant function voltage Va and Vb as variables corresponding to learning...

...respectively, determines the output values of the voltages in order to

correctly discriminate between the **characters** and background...

...The discriminant function **produces** non-overlapping areas. The function is interactive using Lag range's method of indeterminate coefficients. Average **pixel** density is determined...

...USE/ADVANTAGE - E.g. to discriminate text and photograph opens in newspaper information **storage** system. Reliable. Retrieval of contents is easier when document is **stored** as an image...

...Abstract (Equivalent): first learning area (A) to an area containing only one kind of texture and a **second** learning areas (B) containing the other kind of texture by a first step of **producing pixel** density projecting profiles of said image in X- and Y-directions, a **second** step of determining a first range (La) in the **pixel** density projection profiles having a small degree of ruggedness and a **second** range (Lb) in said **pixel** density projection profiles having a conspicuous degree of ruggedness, and a third step of setting...

...first learning areas (A) to the area corresponding to the first range (La) and the **second** learning area (Lb) to the area corresponding to the **second** range (Lb); determining a discriminant function, having as variables, the **pixel** densities in the vicinity of a **pixel** being processed, such that the output values of said discriminant function for the **pixels** of said learning areas (A, B) from profiles having average values (Va, Vb) for each...

...of the dispersion values of the two profiles for the learning areas (A, B) is **smaller** than a predetermined value (S); and discriminating with the determined discriminant function the areas containing...

...other kind of texture by comparing the output values of said discriminant function for the **pixels** of the image with the profiles of the learning areas (A, B)...

...Abstract (Equivalent): To reliably discriminate the **characters** only from the headlines having any background textures, the projection profile of a grey image...

...area. A learning area (B) in the area that includes background texture of a central **portion** and **characters** is set. A discriminant function having, as variables, characteristics that use **pixel** densities in the vicinity of a **pixel** which is processed so that output values of the discriminant function at each of the...

...The sum of dispersion values of the two profiles becomes **smaller** than a predetermined value, in order to discriminate in which area is included the **pixel** which is processed in the headline area. It is determined in which area of the background pattern or the **characters** the **pixel** is included depending upon whether the output value of the discriminant function is close to the value (Va) or to the value (Vb) for each of the **pixels** in the headline area, in order to discriminate the headline area into areas...

...Title Terms: **CHARACTER** ;

27/3,K/12 (Item 12 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
 (c) 2003 Thomson Derwent. All rts. reserv.

008381075 **Image available**
 WPI Acc No: 1990-268076/199035
 XRPX Acc No: N90-207432

Digital data transmission system - stores portions of incoming data packet while it is still being received from data source and extracts framing characters

Patent Assignee: EASTMAN KODAK CO (EAST)

Inventor: WIND A S; WIND A G

Number of Countries: 010 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4949175	A	19900814	US 89381904	A	19890719	199035 B
WO 9101607	A	19910207				199108
EP 434815	A	19910703	EP 90911076	A	19900719	199127
JP 4500894	W	19920213	JP 90510472	A	19900719	199213
EP 434815	B1	19950906	EP 90911076	A	19900719	199540
			WO 90US4053	A	19900719	
DE 69022195	E	19951012	DE 622195	A	19900719	199546
			EP 90911076	A	19900719	
			WO 90US4053	A	19900719	

Priority Applications (No Type Date): US 89381904 A 19890719

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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WO 9101607	A			
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Designated States (Regional): AT BE CH DE DK ES

EP 434815	A			
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Designated States (Regional): DE FR GB

JP 4500894	W	6		
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EP 434815	B1 E	15	H04N-001/00	Based on patent WO 9101607
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Designated States (Regional): DE FR GB

DE 69022195	E		H04N-001/00	Based on patent EP 434815
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Based on patent WO 9101607

... stores portions of incoming data packet while it is still being received from data source and extracts framing characters

...Abstract (Basic): The appts. increased includes a means for storage of portions of the incoming data packet in memory while the data packet is still being received from the data source. The frame characters are extracted from the incoming data stream into separate buffers. This allows the next data...

...due to the ability to perform the data validation testing immediately upon receiving the last character of the packet...

...USE/ADVANTAGE - Transmitting/receiving digital images from diagnostic imaging source. Reduces data transfer time. (13pp Dwg.No. 6/11)

...Abstract (Equivalent): said digital data transmission system includes (I) a means (110,142) for transmitting lines of characters, each of which has a start of message character (114), a line type character (116), a plurality of image data characters (118), and an end of line character (120), and (II) means for receiving successive lines of characters, said means for receiving including an image memory (136) for storing said lines of characters; buffer means (128) for receiving the lines of characters and delivering the characters to said image memory (136); logic and control means (134) comprising a mode evaluator means (152) for (1) checking the correctness of the start of message character, (2) checking to see if the line contains size data, and if so, determining the line size and the number of lines in the image; pixel done counter means (144) for counting data characters transferred to the image memory and producing a signal representing the character count in order to generate a recorder line signal if the count is incorrect; means (132) for evaluating the parity of each character and generating a recorder line signal if

parity is violated; and a mode counter (130) for signalling the receipt of an end of line **character** so that the logic and control means (134) controls the transfer of the image data **characters** from the buffer means to the image memory, verifies that a full image is received if the end of line **character** represents an end of image, orders the next line if the end of line **character** is an end of line message or **generates** a recorder signal when a recorder line signal has been **generated**, said system being characterised by a. block counter means (148) for counting **characters** in an incoming line simultaneously with loading the **characters** into the buffer means and **producing** an end of block indication when a predetermined number of **characters** have been received. b. **pixel** counter means (146) for counting all data **characters** loaded into the buffer means (128) and **producing** a signal representing the **character** count, c. mode register means (150) for storing the end of line **character** externally to the buffer means; wherein said logic and control means (134) comprises means responsive ...

...to the signal from the mode counter (130) to determine that an end of line **character** (120) has been received from the mode register (150), in order to retrieve the **character** count from the **pixel** counter means (146), and if the number of **characters** left in the buffer means (128) is less than a predetermined number, **generate** a request for (160) **another** line of data, whereby received data is transferred into the image memory (136) during the...
 ...Title Terms: **STORAGE** ;

27/3,K/13 (Item 13 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
 (c) 2003 Thomson Derwent. All rts. reserv.

008213525 **Image available**
 WPI Acc No: 1990-100526/199014
 XRPX Acc No: N90-077698

Data processor for characters - allows shape features and series to be changed using stored information

Patent Assignee: BROTHER IND CO LTD (BRER); BROTHER KOGYO KK (BRER)

Inventor: KANEGAE T; KAWAMOTO N; YOSHIDA H

Number of Countries: 004 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3932024	A	19900329	DE 3932024	A	19890926	199014 B
GB 2224623	A	19900509	GB 8921723	A	19890926	199019
FR 2637101	A	19900330	FR 8912569	A	19890926	199020
US 5018217	A	19910521	US 89410872	A	19890922	199123
GB 2224623	B	19921118	GB 8921723	A	19890926	199247
DE 3932024	C2	19970710	DE 3932024	A	19890926	199732

Priority Applications (No Type Date): JP 899399 A 19890118; JP 88239940 A 19880926

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 3932024	A		32		
DE 3932024	C2		31		

Data processor for characters - ...

...allows shape features and series to be changed using stored information

...Abstract (Basic): on the boundary data that defines the graphical shape of the symbol, e.g. alphabetic **character** , and determines the **point** data for reproduction on such as a laser printer. The system has a **character** ROM that stores the groups of boundary data defining a **character** . For example, the **character** 'F' may be defined by several groups (44,46,50). Sevis are described by separate groups (48) in a **second** room...

...the ROM memories to a programme in a separate ROM. Text entered is evaluated and **point** data determined for the defined **characters** . Values are entered into a RAM to supply a printer...

...ADVANTAGE - Offers improved means of **generating** specific **character** form for various selected printing type.

...Abstract (Equivalent): A data conversion apparatus for converting outline data comprising multiple sets of **segment** data representative of the outline of a **character** , into **pixel** data representative of the **character** , each of said sets of **segment** data representing a corresponding **segment** of said outline of the **character** , said apparatus comprising: means for converting said outline data into said **pixel** data according to a conversion rule, each stroke of said **character** being defined by **pixels** which lie in the outline of said stroke as defined by a predetermined requirement, when said outline of said **character** is superimposed on a **pixel** coordinate space; ornamental end data conversion means operable independently of said conversion rule, for processing ornamental end data comprising at least one of said multiple sets of **segment** data of said outline data which represents an ornamental end **portion** of an ornamented stroke of said **character** , said ornamental end data converting means converting said ornamental end data into a predetermined block of **pixel** data associated with said ornamental end **portion** of said ornamented stroke

...

...Abstract (Equivalent): outline data into dot data according to a conversion rule that each stroke of the **character** is constituted by **picture elements** which lie in an outline of the stroke so as to satisfy a predetermined requirement, when said outline of the **character** is superimposed on a coordinated **pixel** screen...

...rule, for processing ornamental end data comprising at least one of the multiple sets of **segment** data of the outline data which defines a profile of an ornamental end **portion** of an ornamented stroke of the **character** .

...

...data which indicates that the ornamental end data defines the profile of the ornamental end **portion** .

...

...data are converted into a predetermined block of dot data associated with the ornamental end **portion** of the ornamented stroke

...Title Terms: **CHARACTER** ;

27/3,K/14 (Item 14 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
 (c) 2003 Thomson Derwent. All rts. reserv.

007485627 **Image available**
 WPI Acc No: 1988-119561/198817

Related WPI Acc No: 1988-119562

XRAM Acc No: C88-053660

XRPX Acc No: N88-090824

Measurement of partial pressure of gases in a gas stream - using three optical detector channels and pressure and detectors

Patent Assignee: NELLCOR INC (NELL-N)

Inventor: BRAIG J R; CORENMAN J E; GALLUP D A; GOLDBERGER D S; RICHARDS E M
; ROJAS E P; STONE J H; COREMAN J E; FROJAS E P

Number of Countries: 016 Number of Patents: 011

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 8802889	A	19880421	WO 87US2889	A	19871016	198817 B
US 4817013	A	19890328	US 86922043	A	19861017	198915
JP 1501568	W	19890601	JP 87507126	A	19871016	198928
CA 1316703	C	19930427	CA 549442	A	19871016	199322
EP 551142	A2	19930714	EP 87907697	A	19871016	199328
			EP 93101050	A	19871016	
EP 551924	A2	19930721	EP 87907697	A	19871016	199329
			EP 93101101	A	19871016	
CA 1324638	C	19931123	CA 549442	A	19871016	199402
			CA 616565	A	19930203	
CA 1331292	C	19940809	CA 549442	A	19871016	199434
			CA 616561	A	19930203	
CA 1333849	C	19950110	CA 549452	A	19871016	199511
DE 3751308	G	19950622	DE 3751308	A	19871016	199530
			EP 87907697	A	19871016	
			WO 87US2758	A	19871016	
EP 551142	B1	19970917	EP 87907697	A	19871016	199742
			EP 93101050	A	19871016	

Priority Applications (No Type Date): US 86922043 A 19861017

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 8802889 A E 119

Designated States (National): DK FI JP

Designated States (Regional): AT BE CH DE FR GB IT LU NL SE

US 4817013 A 590

EP 551142 A2 E 72 G01N-001/24 Related to application EP 87907697

Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

EP 551924 A2 E 71 A61B-005/08 Related to application EP 87907697

Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

CA 1324638 C A61B-005/08 Div ex application CA 549442

CA 1331292 C G01N-001/22 Div ex application CA 549442

DE 3751308 G G06F-017/00 Based on patent EP 289581

Based on patent WO 8802890

EP 551142 B1 E 34 G01N-001/24 Div ex application EP 87907697

Div ex patent EP 289581

Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

CA 1316703 C G06F-015/46

CA 1333849 C G01N-021/35

Measurement of partial pressure of gases in a gas stream...

...Abstract (Basic): inlet to an analyser passes to an optical bench (236) through a flow shaper, to **change** the entering gas flow to a predetermined cross **sectional** shape. In the optical bench (236) three gas detector channel assemblies (304,306,308) are...

...The individual signals of the detectors are modulated and each has an arrangement for determining **changes** in detector sensitivity. The flow rate and barometric pressure within the gas path are measured...

...514). A circuit arrangement takes the detector outputs, pressure, flow rate, and temp. outputs, with **stored** signals representing the characteristics of the optical bench components, to output corrected signals representing the...

...The microprocessor corrects the signals indicative of **partial** gas pressure for temp. **changes** in detector sensitivity, collision broadening, cross correction, barometric pressure, and characterisation of the optical bench...

...USE/ADVANTAGE - Partic. measuring **partial** pressures of constituent gases in respiratory gas streams for an anaesthetised patient mechanically intubated through...

...Abstract (Equivalent): pumping means to the airway adapter (106) and through the inlet filter (232) in a **second** direction that is opposite the first direction the airway adapter including a valve member (226) for restricting reverse fluid flow in the backflush conduit (172), a first **section** (240) having means through which a respiratory gas stream passes, a **second section** (210) fixed in an opening (236) in a sidewall of the first **section** (240) and extending outwardly therefrom the **second section** (210) having a central cavity (212) in fluid communication with the respiratory gas stream passing through the first **section** (240), the valve member (226) disposed in the cavity (212) in the **second section** (210), the valve member (226) having first and **second** means (218, 222) for fluid communications therethrough; the inlet filter (232) disposed across the central...

...adapted to mate in a fluid-tight relationship with the central cavity (212) of the **second section** (210) of the airway adapter (108), and the sampling conduit (174) being in fluid communication...

...in fluid communication with the respiratory gas stream through the coupling member (178) and the **second** means (222) in the valve member (226) when the coupling member (178) is mated with the **second section** (210)...

...Abstract (Equivalent): **Partial** pressure of constituent gases in respiratory gas streams are measured in a system in which...

...removed from a patient and passed to a patient module into optical bench and circuitry **generating** signals representing **partial** pressures of CO2 and N2O. Respiratory events are distinguished in a display of a continuous...

...waveform is marked with labels denoting end-tidal events, inspired events, etc. in forms of **characters**. ADVANTAGE - Rapid response time, capable of self-characterisation without calibration...

...processing circuits process the signals output from the analog processing circuits and other system circuitry. **Pixel** logic circuits/analog outputs process signals output from the display processing circuitry, providing analog output

27/3,K/15 (Item 15 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
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007209403
 WPI Acc No: 1987-206412/198729

XRPX Acc No: N87-154391

**Transformation circuit to effect raster operations - reads pixel values
corresp. to source image from array of addresses in bit map memory**

Patent Assignee: NIPPON DIGITAL EQUIP KK (DIGI)

Inventor: FORRESTER N C; ROSE R C

Number of Countries: 018 Number of Patents: 012

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
ZA 8606373	A	19870218	ZA 866373	A	19860802	198729 B
EP 235471	A	19870909	EP 86401906	A	19860829	198736
AU 8661748	A	19870903				198742
FI 8603815	A	19870829				198748
BR 8604139	A	19871117				198751
DK 8604141	A	19870829				198751
CN 8606165	A	19870909				198842
US 4799173	A	19890117	US 86834600	A	19860228	198906
CA 1268870	A	19900508				199025
KR 9001964	B	19900327				199106
EP 235471	B1	19931124	EP 86401906	A	19860829	199347
DE 3689331	G	19940105	DE 3689331	A	19860829	199402
			EP 86401906	A	19860829	

Priority Applications (No Type Date): US 86834600 A 19860228

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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ZA 8606373	A	41		
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EP 235471	A	E		
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Designated States (Regional): BE CH DE FR GB IT LI NL SE

US 4799173	A	16		
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EP 235471	B1 E	24	G06F-015/62	
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Designated States (Regional): BE CH DE FR GB IT LI NL SE

DE 3689331	G		G06F-015/62	Based on patent EP 235471
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**... reads pixel values corresp. to source image from array of addresses
in bit map memory**

...Abstract (Basic): The source logic circuitry (55) **produces pixel**
addresses for reading raster operations data from the source **portion**
of the image memory while the drawn and origin vector destination
address circuits (15,33) **produce pixel** addresses for writing the
data into the destination **portion** of the image memory...

...The **pixel** addresses are sent to address collection circuits (57) where
they are buffered, combined with refresh...

...many different transformation between source and destination images,
e.g. user can display several different **font** sizes while employing a
single **font** resource. (Provisional basic advised week 8722...

...Abstract (Equivalent): A transformation circuit for reading a first
plurality of **pixel** values corresponding to a source image from a
first array of addresses in a bit map memory having rows and columns of
addresses and writing a **second** plurality of **pixel** values
corresponding to a transformed version of the source image into a
second array of addresses in the bit map memory, each address
consisting of an X address...

...the destination origin vector being a transformation of the source
origin vector, each vector comprising **pixel** values **stored** at a
sequence of addresses, an address circuit (59) being connected to the
bit map...

...origin vector destination address circuitry (13) for outputting a sequence of addresses at which the **pixel** values representing the destination origin vector are to be **stored** as a function of the X and Y components of the first address and the...

...the origin vector destination address circuitry for outputting a sequence of addresses at which the **pixel** values representing a destination drawn vector are to be **stored** as a function of the address output by the origin vector destination address circuitry and ...

...Y extents of the destination origin vector and connected to output either of first and **second** status signals to the switching circuitry as a function of the result of processing the...

...with a predetermined algorithm, the switching circuitry switching the origin vector destination address circuitry to **generate** a sequence of addresses which substantially lie along a vector which is rotated relative to...

...Y extents of a destination drawn vector and connected to output either of first and **second** status signals to the switching circuitry as a function of the result of processing the...

...with a predetermined algorithm, the switching circuitry switching the drawn vector destination address circuitry to **generate** a sequence of addresses which substantially lie along a vector which is rotated relative to...

...Abstract (Equivalent): The circuitry enables **pixel** signals, which represent information **stored** in a first **section** of a memory (and which information defines an image, or images to be viewed on a CRT display) to be transferred to a different **section** of memory and in the course of the transferal be: expanded or **reduced** in number; and/or rotated, by arbitrary angles from the original orientation of the image; and/or have the holes, or missing **pixels**, which occur because of the rotation by the arbitrary angles filled in, or replaced. (16pp)

...Title Terms: **PIXEL** ;

27/3,K/16 (Item 16 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
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004511833
 WPI Acc No: 1986-015177/198603
 XRPX Acc No: N86-011150

Scaleable typeface data producing **method for display - rounding**
 character **base line up or down to nearest X-axis grid line which shifts**
whole character

Patent Assignee: MILES INC (MILE); COMPUGRAPHIC CORP (COMP-N)

Inventor: HAWKINS T B

Number of Countries: 005 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 167838	A	19860115	EP 85107021	A	19850607	198603 B
US 4675830	A	19870623	US 84628192	A	19840706	198727
CN 8504927	A	19870107				198804
EP 167838	B1	19931222	EP 85107021	A	19850607	199351
DE 3587690	G	19940203	DE 3587690	A	19850607	199406

Priority Applications (No Type Date): US 84628192 A 19840706

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 167838	A	E			
				Designated States (Regional): DE FR GB	
EP 167838	B1	E	57	G06F-015/62	
				Designated States (Regional): DE FR GB	
DE 3587690	G			G06F-015/62	Based on patent EP 167838

Scaleable typeface data producing method for display...

...rounding character base line up or down to nearest X-axis grid line which shifts whole character

...Abstract (Basic): The contour of a **character** to be scaled is divided into selected **segments**. Each **segment** extends between a pair of **points** on the contour of the **character**, the pair of **points** defining two skeletal **points**. These are sub-set of the co-ordinates used to define the contour and are chosen from the list of co-ordinates because these **points** need to be aligned with the output bit-map grid. Next, all the coordinates in each **segment** are offset to bring the corresponding first skeletal **point** into alignment with an output grid. Each **segment** is then scaled with an appropriate scale factor so as to bring the corresponding **second** skeletal **point** into alignment with the output grid. The **character** base line is rounded up or down to the nearest X-axis grid line, which shifts the whole **character**. The X-height and ascender height are then rounded to the nearest X-axis grid line. All **points** are scaled according to a determined A type Y-class or B-type Y-class...

...ADVANTAGE - Scales typefaces over variety of sizes and output resolutions while maintaining optimal **character** design...

...Abstract (Equivalent): A method of scaling **character database** from an input **database** stored in a digitally controlled machine for providing bit-map **font** data for graphic images, said input **database** containing data representative of the coordinates of a plurality of **points** located on at least one continuous, closed loop contour of a **character**, the contour being divided into a plurality of sequentially abutting and ordered scaling **segments**, with each scaling **segment** being located between a pair of **points** on the **character** contour, said pair of **character** contour **points** constituting a first skeletal **point** and a **second** skeletal **point**, said skeletal **points** being a subset of the **character** contour coordinates and each representing an important visual feature of the **character** such as the edge of a stem, or the top the **character** bowl, or the crotch at the intersection of two strokes, whereby said skeletal **points** in the **database** are associated in a tree-like structure, said method comprising the steps of: a) processing said input **database** by offsetting all coordinates in each scaling **segment** to bring the corresponding first skeletal **point** into alignment with an output grid which is a series of horizontal and vertical lines for determining the correct position of the skeletal **points**, b) processing further the coordinates of the scaling **segments** by linearly scaling each scaling **segment** with a scale factor that brings the corresponding **second** skeletal **point** into alignment with the output grid, whereby the skeletal **points** are X- and Y-skeletal **points** and these **points** align properly when the Y- and X-values are evenly divisible by a Y- and X- **pixel** dimension,

respectively, and whereby said offsetting and said scaling are done such that as a skeletal **point** is shifted the associated skeletal **points** in the direction towards the branches of the tree are shifted the same amount but the skeletal **points** towards the root of the tree are not **altered** .

(
...Abstract (Equivalent): The continuous, closed loop contour of the **character** is divided into a number of sequentially abutting and ordered scaling **segments** with each scaling **segment** being located between a pair of **points** on the **character** contour. The pair of **character** contour **points** constitute two skeletal **points** .
...

...All coordinates in each scaling **segment** are offset to bring the corresp. first skeletal **point** into alignment with an output grid. Each scaling **segment** is linearly scaled with a scale factor that brings the corresp. **second** skeletal **point** into alignment with the output grid. (27pp)

...Title Terms: **PRODUCE** ;

27/3,K/17 (Item 17 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

004321212
WPI Acc No: 1985-148090/198525
XRPX Acc No: N85-111726

Halo generation for CRT display - uses logic circuit to alter video intensity at specific points on display generation

Patent Assignee: HONEYWELL INC (HONE); SPERRY CORP (SPER)

Inventor: HILBURN H C; JOHNSON M J

Number of Countries: 007 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 145181	A	19850619	EP 84307141	A	19841017	198525 B
DK 8405071	A	19850519				198536
US 4570182	A	19860211	US 83553223	A	19831118	198609
IL 73402	A	19880630				198835
EP 145181	B	19910522				199121
DE 3484613	G	19910627				199127

Priority Applications (No Type Date): US 83553223 A 19831118

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 145181	A	E	24		
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Designated States (Regional): DE FR GB IT

EP 145181	B				
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Designated States (Regional): DE FR GB IT

Halo generation for CRT display...

...uses logic circuit to alter video intensity at specific points on display generation

...Abstract (Basic): The video halo **generator** is incorporated in a video display system using a **picture element** matrix to form **characters** on the screen in response to a set of coordinates **generated** to represent a particular **character** and used to modulate the video signal to form the required image. The video bit signals are **stored**

in memory and the memory scanned to locate a **character** which is to be highlighted...

...processor, which responds to the logic level obtained from scanning of the screen bit map, **reducing** the background intensity to half the normal level if a logic one is obtained, **producing** a flicker free halo round the **character** .

...ADVANTAGE - Allows a **character** printed onto a screen image to be highlighted by the presence of a halo round the **character** to facilitate visual location and reading of the **character** .

...Abstract (Equivalent): Apparatus for **generating** a halo about symbols in video display means, comprising: Means (41) for displaying video data comprising a matrix of **picture elements** , denoted P, x, y; and means for illuminating the **picture elements** in response to applied signals; means (40), coupled to the video display means, for **generating picture element** coordinates, for providing signals representative of those coordinates, and for synchronising the illuminating means with the coordinates; means (43) having addresses corresponding to the **picture elements** , for storing video bit signals, denoted Bx,y; means (42) coupled to the **storage** means and to the coordinate **generating** means, for reading, in response to a signal from the coordinate generating means representing a **generated** coordinate i, j, the addresses corresponding to **picture elements** P i-1, j-1 ; P_{i,j-1} ; P_{i,j+1} ; P_{i-1,j} ; P_i...

...1 ; and P_{i+1, j+1} ; means (44), coupled to the address reading means for **generating** a digital signal:- sum Bx, y, B_{i,j} (bar) the summation representing a Boolean OR, and the **product** representing a Boolean AND, means (46), coupled to the coordinate **generating** means for **generating** , in response to a signal from the coordinate **generating** means representative of the **generated** coordinate i, j, a video background signal for **producing** a predetermined intensity of illumination of the **picture element** P_{i, j} ; means (45) coupled to the video display means (41), the digital signal **generating** means (44), and the video background signal **generating** means (46), for **generating** , in response to said digital signal having a value of ZERO and the video background signal, a first signal, and for **generating** , in response to said digital signal having a value of ONE and the video background signal, a **second** signal, the picture element P_{i, j} ; being illuminated at a predetermined fraction of said predetermined intensity by the illuminating means of the video displaying means, in response to the **second** signal

...Abstract (Equivalent): Video Bit signals corresponding to a CRT **picture element** (P_{i,j}) and the immediately surrounding CRT **picture elements** are read from an image memory. A digital signal is **generated** representing a Boolean Function. The intensity of the background illumination at P_{i,j}, is unaltered...

...An address reader is provided comprising shift registers coupled to D type flip-flops. The **reduction** in intensity **creates** a halo around a symbol which is black in appearance, and distinguishes the symbol from

...Title Terms: **GENERATE** ;

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004302484

WPI Acc No: 1985-129362/198522

XRPX Acc No: N85-097335

Reduction of matrix character size - has large matrix character format subjected to reduction process for input to work processor

Patent Assignee: RICOH KK (RICO)

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Number of Countries: 003 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3440377	A	19850523	DE 3440377	A	19841105	198522 B
GB 2149165	A	19850605	GB 8427488	A	19841031	198523
US 4555191	A	19851126				198550
GB 2149165	B	19870218				198707
DE 3440377	C	19880804				198831

Priority Applications (No Type Date): JP 83206914 A 19831105

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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DE 3440377	A	28		
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Reduction of matrix character size...

...has large matrix character format subjected to reduction process for input to work processor

...Abstract (Basic): Characters , e.g. Japanese, represented in a 24x24 dot matrix format are subjected to a **reduction** process to **produce** 8x8 format for handling in a word processor system. The **characters** are **stored** in a memory (200), which is read into a **reduction** unit coupled to a display control module. The data is read as groups of 8...

...registers and three outputs (Q6, Q7, Q8) connect with AND gates (408) providing X axis reduction . A coupled OR gate connects with a pair of flip flops (414, 416) with outputs...

...Outputs are transmitted to OR gates (422) coupled to a register (424) providing Y axis reduction .

...

...ADVANTAGE - Reduction without increased memory capacity

...Abstract (Equivalent): The character font reducing circuit uses a memory, the content of which is shiftable, and which stores the **pixel** data readout from the **font** memory. The output signals of the **storage** unit are processed by the logic unit which divides the base dot matrix into a dot submatrix containing many dots of the basic matrix. The **reduction** is first carried out in the X direction forming blocks of many submatrix **points** . The latter are then shifted in one direction, and similar steps are carried out to...

...The system is based on the font storage unit (200) directly connected to the display controller and to the **font reducer** (400) linked to the display. The display controller includes the display unit, control set, output...

...ADVANTAGE - System eliminates storage of reduced font data and ensures exact and precise reproduction of **smaller** printout. (14pp)

...Abstract (Equivalent): A method of reducing the size of a **character** which is represented by a data matrix having a plurality of rows of

data arranged in a first direction and a plurality of columns of data arranged in a **second** direction perpendicular to the first direction, said method comprising the steps of: (a) **producing** first data by dividing a row of the data matrix into a plurality of blocks...

...number of data and, then, assigning a single first data value to each block; (b) **producing second** data by shifting the row used in the step (a) in the first direction to...

...then dividing the shifted row into a plurality of blocks, and then assigning a single **second** data value to each block; (c) computing third data by associating the first and **second** data with each other in the **second** direction; (d) computing third data for a **second** predetermined number of subsequent by sequentially performing the steps (a), (b) and (c); (e) computing fourth data by associating in the **second** direction the third data computed by the step (d); and (f) computing the fourth data associated with the whole **character** data matrix by repeating the consecutive steps (a) through (e).r

...Abstract (Equivalent): Digitised **font** data representative of a **character font** is constructed in a dot matrix consisting of rows in an X direction and columns...

...USE/ADVANTAGE - Word processor, office computer. **Reduces** size of **character font** . (14pp)

Title Terms: **REDUCE** ;

?